

AMENDMENTS TO THE CLAIMS

Please cancel Claims 2-4, 9 and 13-18, without prejudice.

Please amend Claim 1, 5 and 12 as follows.

1. (Currently amended) A motor vehicle drive control system providing control means which drives each drive actuator of an engine throttle, a steering, and brakes according to detection result of operation states of a motor vehicle to perform stability control at the time of motor vehicle traveling, comprising:

a plurality of sensor units which are provided in the front and rear, and left and right of a motor vehicle body respectively, wherein the sensors are arranged to detect a first acceleration generated in a fore-and-aft direction of the motor vehicle body, a second acceleration generated in a left-and-right direction of the vehicle body, and a third acceleration generated in an up-and-down direction of the motor vehicle body, to convert the detection result into digital values, and transmit digital information including the digital values; and

a monitoring device which receives the digital information transmitted from the sensor units, and acquires the detection result of the first to third accelerations of every sensor unit, wherein the control means has means of performing correction control of drive of a predetermined drive actuator among the respective drive actuators on the basis of the detection result of the first to third accelerations acquired by the monitoring device,

wherein a sensor unit is provided in each of a plurality of bodies of rotation, which are the wheels or which are bodies of rotation provided in a motor vehicle body side for mounting the wheels, and rotates with the respective wheel, and

wherein each sensor provided in a body of rotation is arranged to detect accelerations in three mutually orthogonal directions, being (i) a rotary direction of the tire of the respective wheel. (ii) a direction of the axis of rotation of the respective wheel and (iii) a direction orthogonal to the axis of rotation of the respective wheel.

2-4. (Canceled)

5. (Currently amended) The motor vehicle drive control system according to claim 1 ~~claim 4~~, wherein the ~~each~~ sensor unit is provided in a brake disc which rotates with an axle.

6. (Original) The motor vehicle drive control system according to claim 1, further comprising a central sensor unit which is provided in a center section of the motor vehicle body, detects first acceleration applied in a fore-and-aft direction of the vehicle body, second acceleration applied in a right-and-left direction of the vehicle body, and third acceleration applied in a up-and-down direction of the vehicle body, converts the detection result into digital values, and transmits digital information including the digital values;

wherein the monitoring device has means of receiving digital information transmitted from the central sensor unit, and acquiring the detection result of the first to third accelerations by the central sensor unit; and

the control means has means of performing correction control of drive of the predetermined drive actuator on the basis of detection result of the first to third accelerations acquired by the monitoring device.

7. (Original) The motor vehicle drive control system according to claim 1, wherein the sensor unit has:

means of wave-receiving an electromagnetic wave at a first frequency;

means of transforming into electrical drive energy the wave-received electromagnetic wave energy at the first frequency; and

means of operating by the electrical energy and transmitting the digital information using an electromagnetic wave at a second frequency; and

the monitoring device has:

means of radiating an electromagnetic wave at the first frequency;

means of wave-receiving the electromagnetic wave at the second frequency; and

means of extracting the digital information from the wave-received electromagnetic wave at the second frequency.

8. (Original) The motor vehicle drive control system according to claim 7, wherein the first frequency and the second frequency are the same frequencies.

9. (Cancelled)

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10. (Original) The motor vehicle drive control system according to claim 1, wherein the sensor unit has memory means where identification information unique to itself is contained, and means of transmitting the identification information included in the digital information; and
the monitoring device has means of identify the sensor unit by the identification information.

11. (Original) The motor vehicle drive control system according to claim 1, wherein the sensor unit comprises a semiconductor acceleration sensor having a silicon piezo type diaphragm detecting accelerations in directions which are orthogonal mutually.

12. (Currently amended) The motor vehicle drive control system according to claim 1, wherein the each sensor unit is provided in each of four corners of the front and rear, and left and right of a motor vehicle body.

13-18. (Canceled)